

Proposed Revised Claims for 1275/190

1. (once amended) A method of providing an iron oxide complex for administration to a mammalian subject, the method comprising consisting of:
producing a carboxyalkylated reduced polysaccharide iron oxide complex; and
sterilizing the complex by autoclaving.
2. (no change) A method according to claim 1, wherein the reduced polysaccharide is a reduced polymer of glucose.
3. (no change) A method according to claim 2, wherein the reduced polymer of glucose is a reduced dextran.
4. (no change) A method according to claim 1, wherein the reduced polysaccharide is produced by reacting a polysaccharide with a reagent selected from the group consisting of: a borohydride salt, and hydrogen in the present of an hydrogenation catalyst.
5. (cancel) A method of providing an iron oxide complex for administration to a mammalian subject, the method comprising:
producing a derivatized reduced polysaccharide iron oxide complex; and
sterilizing the complex by autoclaving.
6. (cancel) A method according to claim 5, wherein producing the complex includes derivatizing a reduced polysaccharide by carboxyalkylation.
7. (once amended) A method according to claim [6] 1, wherein the carboxyalkylation is a carboxymethylation producing the complex includes carboxyalkylating a reduced polysaccharide by carboxymethylation.
8. (no change) A method according to claim 7, wherein the reduced polysaccharide is a reduced dextran.
9. (no change) A method according to claim 8, wherein the administration to a mammalian subject is administration to a human.
10. (once amended) A method according to claim [5] 1, wherein the derivatized carboxyalkylated, reduced polysaccharide isolated as the a sodium salt does not contain an infrared absorption peak in the region of about 1650 cm^{-1} to about 1800 cm^{-1} .
11. (once amended) A method according to claim [5] 1, wherein producing the derivatized carboxyalkylated reduced polysaccharide is achieved at a temperature of less than about 50 °C.

12. (once amended) A method according to claim 11, wherein producing the [derivatized] carboxyalkylated reduced polysaccharide is achieved at a temperature of less than about 40 °C.
13. A method according to claim [5] 1, wherein the iron oxide is superparamagnetic
18. A reduced polysaccharide iron oxide complex produced according to the method of claim 1, wherein the produced [such] complex [being] is stable at a temperature of at least 100 °C.
19. (once amended) A reduced polysaccharide iron oxide complex according to claim 18, [such] wherein the produced complex [being] is stable at a temperature of about 121 °C.
20. (once amended) A reduced polysaccharide iron oxide complex according to claim 19, [such] wherein the produced complex [being] is stable at a temperature of at least about 121 °C for a period of time effective to sterilize the complex.
21. (cancel) A reduced polysaccharide iron oxide complex according to claim 18, wherein the reduced polysaccharide is derivatized.
22. (once amended) A reduced polysaccharide iron oxide complex according to claim [21] 18, wherein the [derivatized] carboxyalkylated reduced polysaccharide is selected from the group consisting of a [carboxyalkyl] carboxymethyl, carboxyethyl and carboxypropyl reduced polysaccharide.
23. (cancel) A reduced polysaccharide iron oxide complex according to claim 22, wherein the carboxyalkyl is selected from the group consisting of carboxymethyl, carboxyethyl, and carboxypropyl.
24. (once amended) A reduced polysaccharide iron oxide complex according to claim [23] 22, wherein the reduced polysaccharide is a reduced dextran.
25. (once amended) A reduced polysaccharide iron complex according to claim 22, wherein the [derivatized] carboxyalkylated reduced dextran is a carboxymethyl reduced dextran.
26. (twice amended) A reduced polysaccharide iron oxide complex according to claim 24, wherein [the amount of derivatization of] the carboxyalkylated reduced dextran [is] comprises at least about 750 micromole of carboxyl groups per gram of polysaccharide.
27. (twice amended) A reduced polysaccharide iron oxide complex according to claim 26, wherein [the level of derivatization of] the carboxyalkylated reduced dextran [is] comprises at least about 900 micromole of carboxyl groups per gram of polysaccharide.

28. (twice amended) A reduced polysaccharide iron oxide complex according to claim 27, wherein [the amount of derivatization of] the carboxyalkylated reduced dextran [is] comprises at least about 1,10 micromole of carboxyl groups per gram of polysaccharide.

29. (twice amended) A reduced polysaccharide iron oxide complex according to claim [26] 28, wherein [the amount of derivatization of] the carboxyalkylated reduced dextran [is] comprises [at least] less than about 1,500 micromole of carboxyl groups per gram of polysaccharide, wherein said complex remains a colloidal suspension without substantial aggregation] wherein said complex does not form substantial particulates.

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35. (thrice amended) An improved method of administering to a mammalian subject a polysaccharide iron oxide complex [of the type wherein there is a risk of edematous response], wherein the improvement comprises [utilizing for administration a derivatized] administering a carboxyalkylated reduced polysaccharide [composition] iron oxide complex [and in derivatizing the polysaccharide, providing] having an extent of [derivatization] carboxyalkylation sufficient to produce decreased edematous response to the [derivatized composition so that there is a decreased edematous response] carboxyalkylated complex in comparison to [utilizing a] an edematous response to an administered polysaccharide that has not been thus [derivatized] carboxyalkylated.

10 autoclaving

36. (thrice amended) An improved method of administering to a mammalian subject a polysaccharide iron oxide complex wherein the [composition includes] polysaccharide in the complex is dextran [of the type wherein there is a risk of edematous response], wherein the improvement comprises [utilizing for administration a carboxyalkylated] administering a carboxymethylated reduced dextran [in lieu of dextran] iron oxide complex [and in carboxymethylating the dextran, providing] having an extent of carboxymethylation sufficient to produce decreased edematous response to the [derivatized composition so that there is a decreased edematous response] carboxymethylated complex in comparison to [utilizing a] an edematous response to an administered dextran that has not been thus [derivatized] carboxymethylated.

39 (twice amended) A method according to claim 36, further comprising sterilizing the [composition] complex by autoclaving.

40. (cancel) A method according to claim 39, wherein the subject is in need of a plasma extender.

41. () A method according to claim 36, further comprising providing a solution of an iron salt to form a carboxymethylated reduced dextran iron colloid formulation producing decreased edematous response.

42. (twice amended) A method according to claim [44] 36, further comprising sterilizing the carboxymethylated reduced dextran iron [formulation] oxide complex by autoclaving.

43. (no change) A method according to claim 42, wherein the subject is in need of iron.

44. (no change) A method according to claim 43, wherein the subject in need of iron is selected from the group of: a cancer patient, a gastroenteritis patient, and an erythropoietin recipient.

45. (thrice amended) A method of magnetic resonance imaging (MRI) according to claim [41 of magnetic resonance imaging (MRI)] 36 of the type including a reduced polysaccharide[-derived] iron oxide MRI contrast agent, [wherein there is a risk of edematous response], wherein the improvement comprises administering to the subject an effective dose of the contrast agent to [obtain] facilitate magnetic resonance imaging (MRI) of a tissue or organ [so that] wherein there is a decreased edematous response in comparison to [utilizing] an edematous response when an unmodified polysaccharide contrast agent is administered.

46. (twice amended) A method of magnetic resonance imaging according to claim 45, wherein the improvement further comprises administering [an effective dose of the agent to obtain an MRI, followed within a single clinical visit by administering a further effective dose, to obtain a further MRI] successive effective doses of the contrast agent to facilitate successive magnetic resonance imaging of a tissue or organ.

47. (once amended) A method according to [either of claims 46] claim 45, wherein the effective dose is about 0.1 to about 4.0mg of iron per kg of body weight of the subject.

48. (no change) A method according to claim 47, wherein the effective dose is about 0.2 to about 0.6 mg of iron per kg of body weight.

49. (no change) A method according to claim 47, wherein the effective dose is about 0.4 to about 1.0 mg of iron per kg of body weight.

50. (no change) A method according to claim 47, wherein the effective dose is about 1.0 to about 4.0 mg of iron per kg of body weight.

51. (once amended) A method according to claim 46, wherein the [interval between administering] successive effective doses [and administering the further effective dose is] are administered less than one hour apart.

52. (once amended) A method according to claim 51, wherein the [interval between administering] successive effective doses [and administering the further effective dose is] are administered less than thirty minutes apart.

53. (no change) A method of providing a contrast agent for in vivo MRI of a subject, comprising the steps of:

formulating a composition which is a carboxymethylated reduced coated ultrasmall superparamagnetic iron oxide colloid; and

terminally sterilizing the composition by autoclaving.

54. (no change) A method of providing a hematinic agent for treating a subject deficient in iron, comprising the steps of:

formulating a composition which is a carboxymethylated reduced coated ultrasmall iron oxide colloid; and
terminally sterilizing the composition by autoclaving.

55. (no change) A method according to claim 53 or 54, having the further step of providing the autoclaved composition in a unit dosage.

56. (cancel) A kit containing multiple dosages of [the] an agent prepared by the method of claim 55.

57. (twice amended) An improved method of the type for [obtaining] administering a pharmacological polysaccharide composition [for pharmacological use from a polysaccharide wherein there is a risk of edematous response], wherein the improvement comprises prior to administering:

reducing [and carboxylating] the polysaccharide; and
[in] carboxylating[, providing] to an extent [of carboxylation] sufficient to produce a decreased edematous response to the [obtained carboxyalkylated] administered polysaccharide composition in comparison to [method for providing a] an edematous response to an administered unreduced uncarboxyalkylated polysaccharide [composition for pharmacological use obtained from an unmodified polysaccharide].

58. (once amended) A method according to claim 57, wherein the [pharmacological use is in vivo administration] method further comprises:

administering the reduced carboxyalkylated pharmacological polysaccharide composition to a mammalian subject as a plasma extender.

59. (once amended) An improved method of the type for obtaining a composition for pharmacological use from a dextran, wherein the improvement comprises:

reducing [and carboxymethylating] the dextran; and,
[in] carboxymethylating the dextran[, providing] to provide an extent of carboxymethylation sufficient to produce decreased edematous response to the [obtained carboxymethylated] administered dextran composition in comparison to [a method for obtaining a] an edematous response to an administered unreduced uncarboxyalkylated polysaccharide [composition for pharmacological use from an unmodified dextran].

60. (once amended) A method according to claim [59] 57, having the further step [after the reacting step,] of sterilizing the [carboxymethylated] carboxyalkylated reduced dextran composition.

61. (no change) A method according to claim 60, having the further step after the sterilizing step of providing the sterile composition as a single dosage unit.

62. (no change) A method according to claim 60, having the additional step of administering the composition to a mammal in need of a plasma extender.

63. (no change) A product for use as a plasma extender produced by the improved method of claim 60.

64. (once amended) A reduced [derivatized] carboxyalkylated polysaccharide iron oxide complex which is stable at a temperature of about 121 °C, wherein [the] a sodium salt of the complex does not contain an infrared absorption peak in the region of about 1650 cm^{-1} to about 1800 cm^{-1} .

65. (cancel) A reduced derivatized polysaccharide iron oxide complex according to claim 64, wherein the polysaccharide is carboxyalkylated.

66. (once amended) A reduced [derivatized] carboxyalkylated polysaccharide iron oxide complex according to claim 64, wherein the polysaccharide is [carboxyalkylated] carboxymethylated.

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